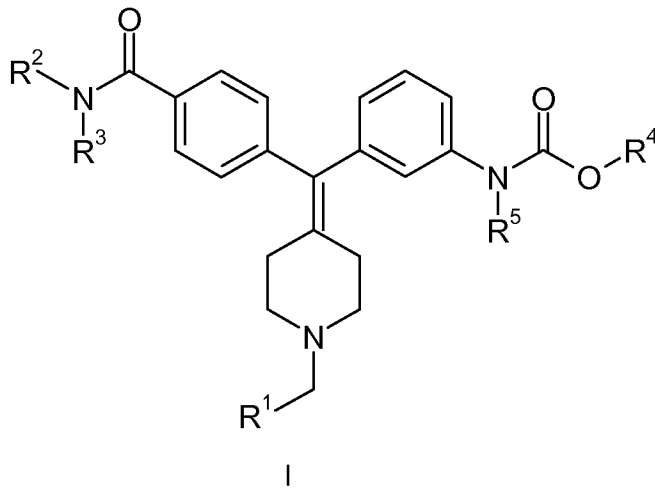


In the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of claims

1. (original) A compound of formula I, a pharmaceutically acceptable salt thereof, diastereomers, enantiomers, or mixtures thereof:



wherein

R¹ is selected from C₆₋₁₀aryl and C₂₋₆heteroaryl, wherein said C₆₋₁₀aryl and C₂₋₆heteroaryl are optionally substituted with one or more groups selected from -R, -NO₂, -OR, -Cl, -Br, -I, -F, -CF₃, -C(=O)R, -C(=O)OH, -NH₂, -SH, -NHR, -NR₂, -SR, -SO₃H, -SO₂R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR₂, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C₁₋₆alkyl; and

R², R³, R⁴ and R⁵ are, independently, selected from hydrogen, C₁₋₆alkyl, and C₃₋₆cycloalkyl, wherein said C₁₋₆alkyl and C₃₋₆cycloalkyl are optionally substituted with one or more groups selected from -R, -NO₂, -OR, -Cl, -Br, -I, -F, -CF₃, -C(=O)R, -C(=O)OH, -NH₂, -SH, -NHR, -NR₂, -SR, -SO₃H, -SO₂R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR₂, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C₁₋₆alkyl.

2. (original) A compound according to claim 1,

wherein R¹ is selected from phenyl; pyridyl; thienyl; furyl; imidazolyl; triazolyl; pyrrolyl; thiazolyl; and N-oxido-pyridyl, wherein R¹ is optionally substituted with one or more groups selected from C₁₋₆alkyl, halogenated C₁₋₆alkyl, -NO₂, -CF₃, C₁₋₆ alkoxy, chloro, fluoro, bromo, and iodo;

R^2 , R^3 , and R^4 are, independently, C_{1-3} alkyl or halogenated C_{1-3} alkyl;

R^5 is selected from hydrogen, C_{1-6} alkyl, and C_{3-6} cycloalkyl, wherein said C_{1-6} alkyl and C_{3-6} cycloalkyl are optionally substituted with one or more groups selected from C_{1-6} alkyl, halogenated C_{1-6} alkyl, $-NO_2$, $-CF_3$, C_{1-6} alkoxy, chloro, fluoro, bromo, and iodo.

3. (original) A compound according to claim 1,

wherein R^1 is selected from phenyl; pyridyl; thienyl; furyl; imidazolyl; pyrrolyl; and thiazolyl, wherein R^1 is optionally substituted with one or more groups selected from C_{1-6} alkyl, halogenated C_{1-6} alkyl, $-NO_2$, $-CF_3$, C_{1-6} alkoxy, chloro, fluoro, bromo, and iodo;

R^2 , R^3 , and R^4 are, independently, C_{1-3} alkyl or halogenated C_{1-3} alkyl; and

R^5 is hydrogen.

4. (original) A compound according to claim 1,

wherein R^1 is selected from phenyl, pyridyl, thienyl, furyl, imidazolyl, pyrrolyl, and thiazolyl;

R^2 and R^3 are ethyl;

R^4 is C_{1-3} alkyl; and

R^5 is hydrogen.

5. (original) A compound according to claim 1, wherein the compound is selected from:

[3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-thienylmethyl)-4-piperidinylidene]methyl]phenyl]-carbamic acid, methyl ester;

[3-[[4-[(diethylamino)carbonyl]phenyl][1-(2-furanylmethyl)-4-piperidinylidene]methyl]phenyl]-carbamic acid, methyl ester;

[3-[[4-[(diethylamino)carbonyl]phenyl][1-(phenylmethyl)-4-piperidinylidene]methyl]phenyl]-carbamic acid, methyl ester;

methyl 3-{{4-[(diethylamino)carbonyl]phenyl}[1-(1,3-thiazol-4-ylmethyl)piperidin-4-ylidene]methyl}phenylcarbamate;

methyl 3-{{4-[(diethylamino)carbonyl]phenyl}[1-(1,3-thiazol-5-ylmethyl)piperidin-4-ylidene]methyl}phenylcarbamate;

and pharmaceutically acceptable salts thereof.

6. (cancelled)

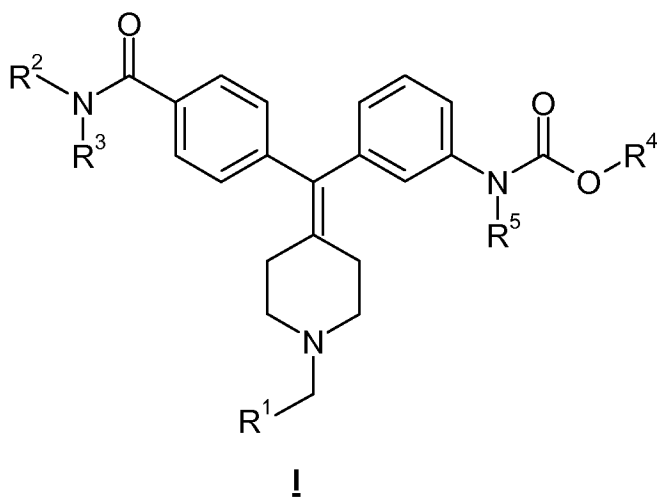
7. (withdrawn) A method for the therapy of pain, anxiety or functional gastrointestinal disorders, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to claim 1.

8. (previously presented) A pharmaceutical composition comprising a compound according claim 1 and a pharmaceutically acceptable carrier.

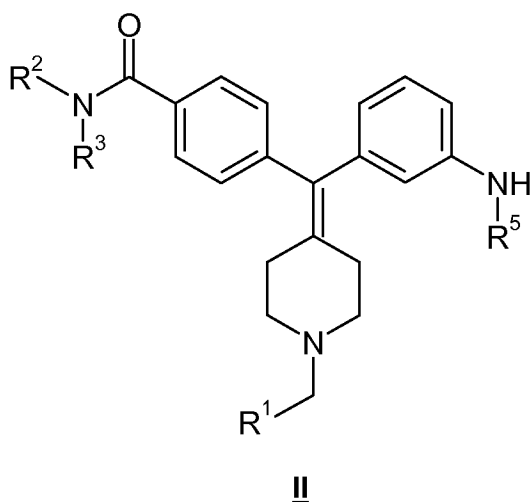
9. (withdrawn) A method for the therapy of pain in a warm-blooded animal, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according claim 1.

10. (withdrawn) A method for the therapy of functional gastrointestinal disorders in a warm-blooded animal, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to claim 1.

11. (withdrawn) A process for preparing a compound of formula I, comprising:



reacting a compound of formula II with X-C(=O)-O-R⁴:



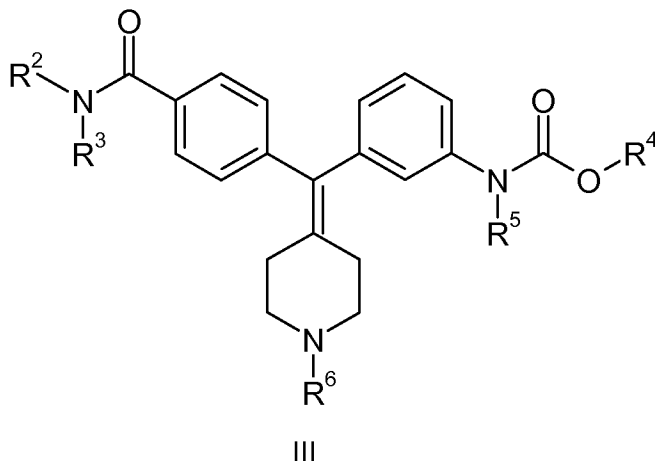
wherein

X is Cl, Br or I;

R¹ is selected from C₆₋₁₀aryl and C₂₋₆heteroaryl, wherein said C₆₋₁₀aryl and C₂₋₆heteroaryl are optionally substituted with one or more groups selected from -R, -NO₂, -OR, -Cl, -Br, -I, -F, -CF₃, -C(=O)R, -C(=O)OH, -NH₂, -SH, -NHR, -NR₂, -SR, -SO₃H, -SO₂R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR₂, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C₁₋₆alkyl; and

R², R³, R⁴ and R⁵ are, independently, selected from hydrogen, C₁₋₆alkyl, and C₃₋₆cycloalkyl, wherein said C₁₋₆alkyl and C₃₋₆cycloalkyl are optionally substituted with one or more groups selected from -R, -NO₂, -OR, -Cl, -Br, -I, -F, -CF₃, -C(=O)R, -C(=O)OH, -NH₂, -SH, -NHR, -NR₂, -SR, -SO₃H, -SO₂R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR₂, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C₁₋₆alkyl.

12. (original) A compound of formula III:

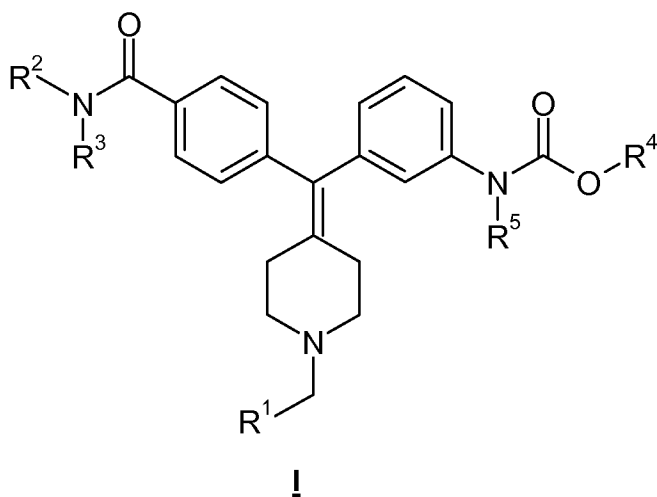


wherein

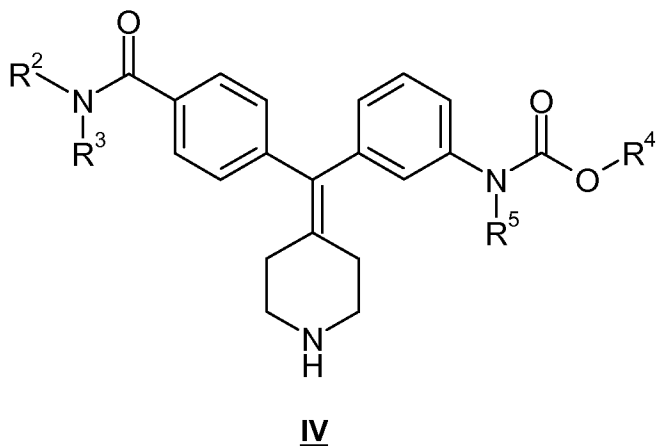
R^2 , R^3 , R^4 and R^5 are, independently, selected from hydrogen, C_{1-6} alkyl, and C_{3-6} cycloalkyl, wherein said C_{1-6} alkyl and C_{3-6} cycloalkyl are optionally substituted with one or more groups selected from -R, -NO₂, -OR, -Cl, -Br, -I, -F, -CF₃, -C(=O)R, -C(=O)OH, -NH₂, -SH, -NHR, -NR₂, -SR, -SO₃H, -SO₂R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR₂, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C_{1-6} alkyl; and

R^6 is selected from -H and -C(=O)-O- C_{1-6} alkyl.

13. (withdrawn) A process for preparing a compound of formula I, comprising:



reacting a compound of formula IV with R^1 -CHO or R^1 CH₂-X:



wherein

X is Cl, Br or I;

R^1 is selected from C_{6-10} aryl and C_{2-6} heteroaryl, wherein said C_{6-10} aryl and C_{2-6} heteroaryl are optionally substituted with one or more groups selected from -R, -NO₂, -OR, -Cl, -Br, -I, -F, -CF₃, -C(=O)R, -C(=O)OH, -NH₂, -SH, -NHR, -NR₂, -SR, -SO₃H, -SO₂R, -S(=O)R, -CN, -OH, -

C(=O)OR, -C(=O)NR₂, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C₁₋₆alkyl; and

R², R³, R⁴ and R⁵ are, independently, selected from hydrogen, C₁₋₆alkyl, and C₃₋₆cycloalkyl, wherein said C₁₋₆alkyl and C₃₋₆cycloalkyl are optionally substituted with one or more groups selected from -R, -NO₂, -OR, -Cl, -Br, -I, -F, -CF₃, -C(=O)R, -C(=O)OH, -NH₂, -SH, -NHR, -NR₂, -SR, -SO₃H, -SO₂R, -S(=O)R, -CN, -OH, -C(=O)OR, -C(=O)NR₂, -NRC(=O)R, and -NRC(=O)-OR, wherein R is, independently, a hydrogen or C₁₋₆alkyl.

14. (withdrawn) A method for the therapy of pain, anxiety or functional gastrointestinal disorders, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to claim 2.

15. (withdrawn) A method for the therapy of pain, anxiety or functional gastrointestinal disorders, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to claim 3.

16. (withdrawn) A method for the therapy of anxiety, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to claim 1.

17. (withdrawn) A method for the therapy of anxiety, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to claim 2.

18. (withdrawn) A method for the therapy of anxiety, comprising the step of administering to said animal in need of such therapy a therapeutically effective amount of a compound according to claim 3.

19. (previously presented) A pharmaceutical composition comprising a compound according to claim 2 and a pharmaceutically acceptable carrier.

20. (previously presented) A pharmaceutical composition comprising a compound according to claim 3 and a pharmaceutically acceptable carrier.

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21. (new) A pharmaceutical composition comprising a compound according to claim 5 and a pharmaceutically acceptable carrier.

22. (new) A compound according to claim 12, wherein the compound is methyl 3-[(4-[(diethylamino)carbonyl]phenyl)(piperidin-4-ylidene)methyl]phenylcarbamate.